

10/551923

JO20 Rec'd PCT/PTO 03 OCT 2005

Express Mail Label No. _____

Dated: _____

Docket No.: 20239/0202145-US0
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Tomohiro Kawase

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: INDIUM PHOSPHIDE SUBSTRATE AND
INDIUM PHOSPHIDE MONOCRYSTAL
AND METHOD OF MANUFACTURING
THEREOF

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A summary/abstract translation of the non-English language documents is enclosed.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark

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Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: October 3, 2005

Respectfully submitted,

By

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PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	Not Yet Assigned 10/551923
				Filing Date	Concurrently Herewith
				First Named Inventor	Tomohiro Kawase
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	20239/0202145-USO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-5,647,917-A	07-15-1997	Sumitomo Electric Industries, Ltd.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	JP-03-237088-A	10-22-1991	Nippon Mining Co Ltd	Abstract only	√
	BB	JP-2000-313699-A	11-14-2000	Japan Energy Corp	Abstract only	√
	BC	JP-03-040987-A	02-21-1991	Nippon Telegr & Teleph Corp <NTT>	Abstract only	√
	BD	JP-08-078348-A	03-22-1996	Sumitomo Electric Ind Ltd	Abstract only	√
	BE	JP-11-302094-A	11-02-1999	Japan Energy Corp	Abstract only	√

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	International Search Report for PCT/JP2004/006427 mailed October 5, 2004	
	CB	P. RUDOLPH, et al., Studies on interface curvature during vertical Bridgman growth of InP in a flat-bottom container, Journal of Crystal Growth, 1996, Vol. 158, pp 43-48	
	CC	esp@cenet document view: Abstract of EP 0701008 published on March 13, 1996	
	CD	XIAOYU HU, et al., Three Inch VGF Semi-insulating InP, Post Deadline Papers, Tenth International Conference on Indium Phosphide and Related Materials (IPRM '98), May 11-15, 1998, pp. 15-16	
	CE	TOMOHIRO KAWASE, et al., Improvement of microscopic and macroscopic uniformity in 4-inch InP substrate for IC application by Vertical Boat Growth, GaAs IC Symposium, Technical Digest, October 20-23, 2002, pp. 147-150	
	CF	T. ASAH, et al., Growth of 100mm Diameter <100> InP Single Crystals by the Vertical Gradient Freezing Method, Post Deadline Papers, Tenth International Conference on Indium Phosphide and Related Materials (IPRM '98), May 11-15, 1998, pp. 1-2	
	CG	TOSHIAKI ASAH, et al., Growth of 100-mm-Diameter <100> InP Single Crystals by the Vertical Gradient Freezing Method, Jpn. J. Appl. Phys. Vol. 38, February, 1999, pp. 977-980	
	CH	T. ASAH, et al., VGF CRYSTAL GROWTH AND VAPOR-PHASE Fe DOPING TECHNOLOGIES FOR SEMI-INSULATING 100mm DIAMETER InP SUBSTRATES, 11th International Conference on Indium Phosphide and Related Materials, May 16-20, 1999, pp. 249-254	
	CI	FUMIO MATSUMOTO, et al., Growth of twin-free <100> InP single crystals by the liquid encapsulated vertical Bridgman technique, Journal of Crystal Growth 132, 1998, pp. 348-350	
	CJ	E.M. MONBERG, et al., THE DYNAMIC GRADIENT FREEZE GROWTH OF InP, Journal of Crystal Growth 94, 1989, pp. 109-114	

Examiner Signature		Date Considered	
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number 1 Not Yet Assigned Filing Date 2 Concurrently Herewith First Named Inventor Tomohiro Kawase Art Unit N/A Examiner Name Not Yet Assigned Attorney Docket Number 20239/0202145-US0	
Sheet	2	of	2		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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